



Title: APPARATUS FOR EXTENDED SELF-PINNED LAYER FOR A CURRENT PERPENDICULAR TO PLANE HEAD Applicant: Gill Docket: HSJ920030076US2/HITG.049PA Sheet 2 of 8

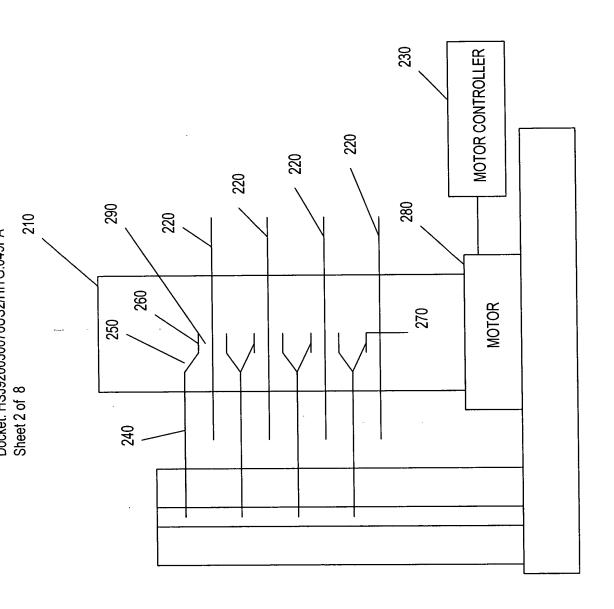


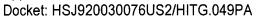
FIG. 2

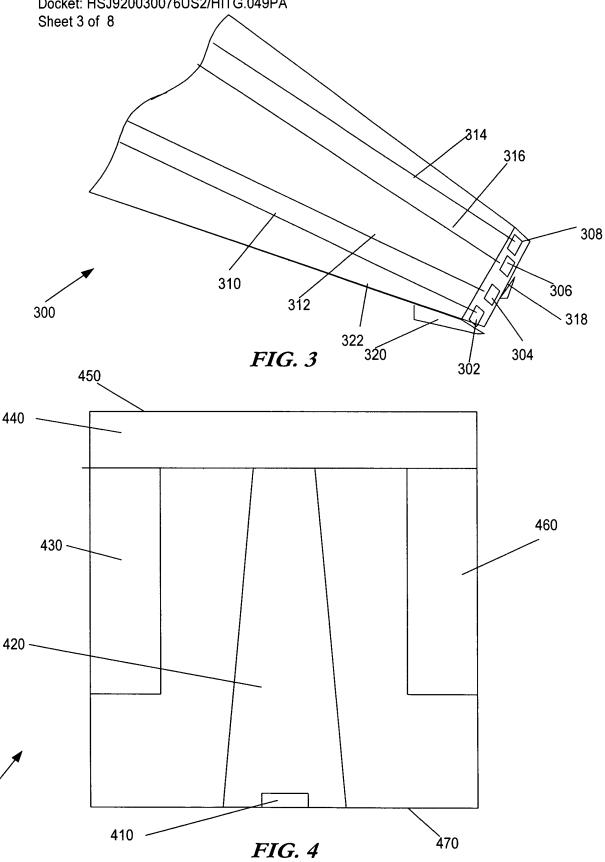


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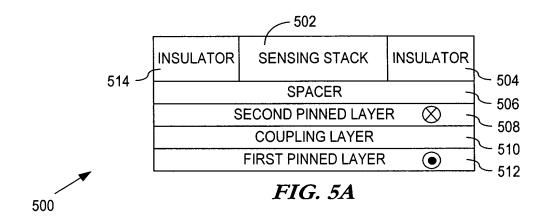
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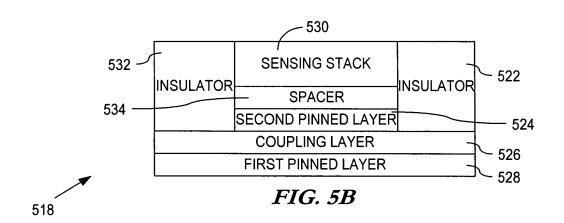
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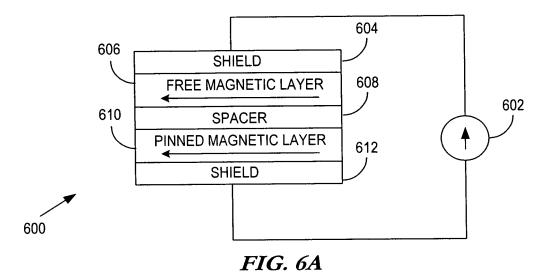


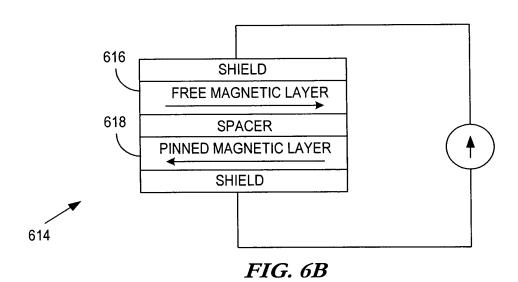
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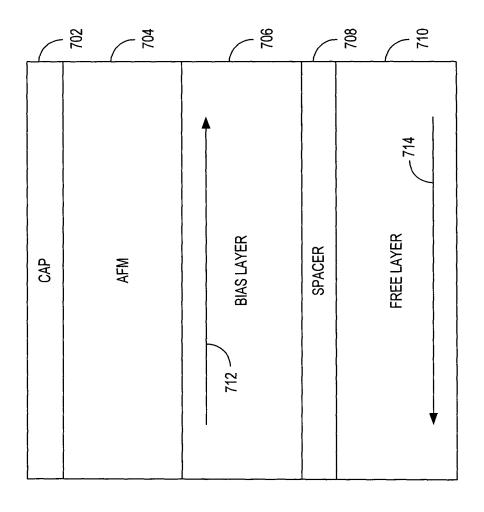
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Title: APPARATUS FOR EXTENDED SELF-PINNED LAYER FOR A CURRENT PERPENDICULAR TO PLANE HEAD 800. Applicant: Gill Docket: HSJ920030076US2/HITG.049PA Sheet 7 of 8 SHIELD NiFe (.5 - 2 microns) 802 Ta (~30 angstroms) 808 PtMn (>100 angstroms) 804 **BIASING** Al_2O_3 CoFe (>30 angstroms) Al_2O_3 **LAYER** Ta (5-20 angstroms) 806 CoFe or NiFe/CoFe FREE (~30 angstroms) **LAYER** 810 Cu (15-30 angstroms) **SECOND** 818 CoFe (15-40 angstroms) **PINNED LAYER** 812 Ru (~8 angstroms) **FIRST** CoFe (15-40 angstroms) **PINNED LAYER** 814 PtMn (< 30 angstroms or > 100 angstroms) NiFe (~8 angstroms) SEED NiFeCr (~30 angstroms) Ta (~30 angstroms) SHIELD NiFe (.5 - 2 microns) 816 FIG. 8



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